

FIG. 1

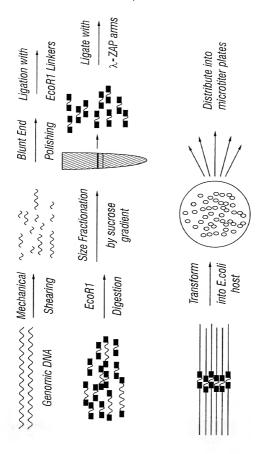


FIG. 2

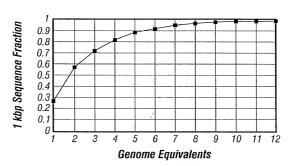


FIG. 3

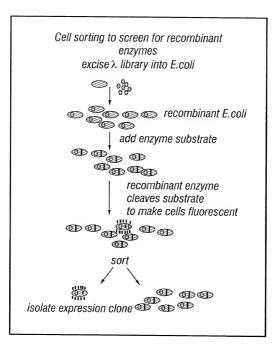


FIG. 4

β-Gal clone with different substrates

- cells were stained with FDG,
 CMFDG or
 C12FDG,
 incubated for 30 min. at 70°C,
 spotted onto a slide and exposed to UV light.
 bright spot
- bright spot indicates staining of cells

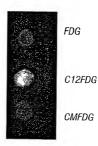


FIG. 5



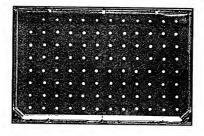


FIG. 6

$$R_1$$
 0 -Flour. $H_2\bar{0}$ R_1 0 - - 0 - Flour -

FIG. 7

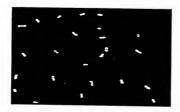


FIG. 8

$$H_3C(H_2C) \stackrel{OH}{\sim} 0$$

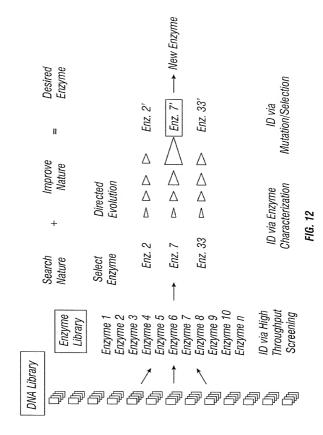
$$C CHCI_3 Triethylamine M.N-Dilsopropylethylamine M_3C(H_2C)_{10} \stackrel{C}{\sim} (CH_2)_{CH_3}$$

$$H_3C(H_2C)_{10} \stackrel{C}{\sim} (CH_2)_{CH_3}$$

FIG. 9

$$H_{2}^{N} \qquad H_{2}^{N} + H_{2}^{N} \qquad H_{2$$

FIG. 11



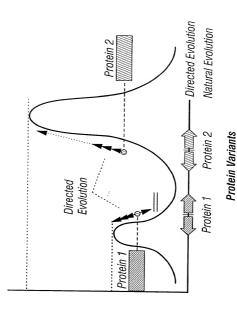
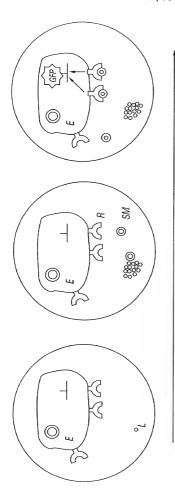


FIG. 13

Relative
Firsyme
Activity
Activity
Process Compatibility
Process Compatibility
Activity
Activity
Activity
Activity
Activity
Activity



Co-encapsulation Library + Eukaryote

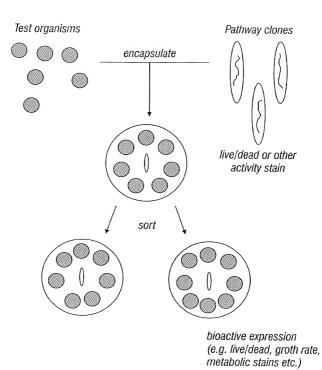
Growth and expression of small molecule from host

Receptor binding of small molecule & GFP reporting

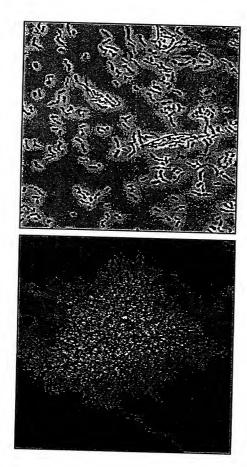
SM=Small molecule

L=Large insert library R=Eukaryotic receptor

E=Eukaryotic assay organism GFP= Green fluorescent protein FIG. 14



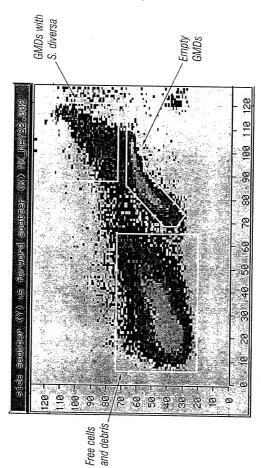
metab FIG. 15



Streptomyces lividans mycelia

Streptomyces "diversa" Unicells

9. 16



76. 17

COMPAND, NATHBOOM